

Release notes for ENDF/B Development n-092_U_236
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=9231, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=9231, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      470 TO      604
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=9231, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=9231, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      470
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 1, MT=452 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF= 1, MT=452
SECTION 1/452 NOT IN DIRECTORY      RECORD NUMBER      605
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 1, MT=455 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF= 1, MT=455
SECTION 1/455 NOT IN DIRECTORY      RECORD NUMBER      617
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 1, MT=456 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF= 1, MT=456
SECTION 1/456 NOT IN DIRECTORY      RECORD NUMBER      627
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 1, MT=458 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF= 1, MT=458
SECTION 1/458 NOT IN DIRECTORY      RECORD NUMBER      639
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      646
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 1 (0): Directory (b)

- | | | |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 1 | RECORD NUMBER | 931 |
| SECTION 3/ 1 NOT IN DIRECTORY | | |
8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 2 | RECORD NUMBER | 1038 |
| SECTION 3/ 2 NOT IN DIRECTORY | | |
9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 3 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 3 | RECORD NUMBER | 1145 |
| SECTION 3/ 3 NOT IN DIRECTORY | | |
10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 4 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 4 | RECORD NUMBER | 1251 |
| SECTION 3/ 4 NOT IN DIRECTORY | | |
11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 16 | RECORD NUMBER | 1333 |
| SECTION 3/ 16 NOT IN DIRECTORY | | |
12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 17 | RECORD NUMBER | 1372 |
| SECTION 3/ 17 NOT IN DIRECTORY | | |
13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 18 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 18 | RECORD NUMBER | 1398 |
| SECTION 3/ 18 NOT IN DIRECTORY | | |
14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 19 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 19 | RECORD NUMBER | 1483 |
| SECTION 3/ 19 NOT IN DIRECTORY | | |
15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 20 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 20 | RECORD NUMBER | 1568 |
| SECTION 3/ 20 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 21 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 21 | RECORD NUMBER | 1622 |
| SECTION 3/ 21 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 37 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 37 | RECORD NUMBER | 1649 |
| SECTION 3/ 37 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 38 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 38 | RECORD NUMBER | 1663 |
| SECTION 3/ 38 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 51 | RECORD NUMBER | 1681 |
| SECTION 3/ 51 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 52 | RECORD NUMBER | 1763 |
| SECTION 3/ 52 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 53 | RECORD NUMBER | 1838 |
| SECTION 3/ 53 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 54 | RECORD NUMBER | 1910 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 55 | RECORD NUMBER | 1979 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 56 | RECORD NUMBER | 2046 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 57 | RECORD NUMBER | 2113 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 58 | RECORD NUMBER | 2179 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 59 | RECORD NUMBER | 2244 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 60 | RECORD NUMBER | 2308 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 61 | RECORD NUMBER | 2372 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 62 | RECORD NUMBER | 2435 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 63 | RECORD NUMBER | 2498 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 64 | RECORD NUMBER | 2561 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 65 | RECORD NUMBER | 2623 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 66 | RECORD NUMBER | 2685 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 67 | RECORD NUMBER | 2746 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 68 | RECORD NUMBER | 2807 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 69 | RECORD NUMBER | 2867 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 70 | RECORD NUMBER | 2927 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 71 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 71 | RECORD NUMBER | 2987 |
| SECTION 3/ 71 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 72 | RECORD NUMBER | 3046 |
| SECTION 3/ 72 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 73 | RECORD NUMBER | 3104 |
| SECTION 3/ 73 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 74 | RECORD NUMBER | 3161 |
| SECTION 3/ 74 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 75 | RECORD NUMBER | 3217 |
| SECTION 3/ 75 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 76 | RECORD NUMBER | 3271 |
| SECTION 3/ 76 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 77 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 77 | RECORD NUMBER | 3324 |
| SECTION 3/ 77 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 78 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 78 | RECORD NUMBER | 3376 |
| SECTION 3/ 78 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 79 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 79 | RECORD NUMBER | 3427 |
| SECTION 3/ 79 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 80 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 80 | RECORD NUMBER | 3477 |
| SECTION 3/ 80 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 81 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 81 | RECORD NUMBER | 3526 |
| SECTION 3/ 81 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 82 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 82 | RECORD NUMBER | 3574 |
| SECTION 3/ 82 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 83 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 83 | RECORD NUMBER | 3621 |
| SECTION 3/ 83 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 84 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 84 | RECORD NUMBER | 3667 |
| SECTION 3/ 84 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 85 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 85 | RECORD NUMBER | 3711 |
| SECTION 3/ 85 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 86 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 86 | RECORD NUMBER | 3754 |
| SECTION 3/ 86 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 87 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 87 | RECORD NUMBER | 3797 |
| SECTION 3/ 87 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 88 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 88 | RECORD NUMBER | 3839 |
| SECTION 3/ 88 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 89 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 89 | RECORD NUMBER | 3880 |
| SECTION 3/ 89 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 90 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 90 | RECORD NUMBER | 3921 |
| SECTION 3/ 90 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT= 91 | RECORD NUMBER | 3961 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 3, MT=102 | RECORD NUMBER | 4020 |
| SECTION 3/102 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 2 | RECORD NUMBER | 4087 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 18 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 18 | RECORD NUMBER | 4673 |
| SECTION 4/ 18 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 19 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 19 | |
| | SECTION 4/ 19 NOT IN DIRECTORY | RECORD NUMBER 4676 |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 20 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 20 | |
| | SECTION 4/ 20 NOT IN DIRECTORY | RECORD NUMBER 4679 |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 21 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 21 | |
| | SECTION 4/ 21 NOT IN DIRECTORY | RECORD NUMBER 4682 |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 38 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 38 | |
| | SECTION 4/ 38 NOT IN DIRECTORY | RECORD NUMBER 4685 |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 51 | |
| | SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER 4688 |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 52 | |
| | SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER 4862 |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 53 | |
| | SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER 5031 |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 54 | |
| | SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER 5128 |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 55 | RECORD NUMBER | 5218 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 56 | RECORD NUMBER | 5297 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 57 | RECORD NUMBER | 5379 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 58 | RECORD NUMBER | 5458 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 59 | RECORD NUMBER | 5538 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 60 | RECORD NUMBER | 5613 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 61 | RECORD NUMBER | 5690 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 62 | RECORD NUMBER | 5767 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 63 | RECORD NUMBER | 5839 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 64 | RECORD NUMBER | 5915 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 65 | RECORD NUMBER | 5989 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 66 | RECORD NUMBER | 6064 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 67 | RECORD NUMBER | 6139 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 68 | RECORD NUMBER | 6214 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 69 | RECORD NUMBER | 6289 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 70 | RECORD NUMBER | 6364 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 71 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 71 | RECORD NUMBER | 6439 |
| SECTION 4/ 71 NOT IN DIRECTORY | | |
88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 72 | RECORD NUMBER | 6514 |
| SECTION 4/ 72 NOT IN DIRECTORY | | |
89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 73 | RECORD NUMBER | 6604 |
| SECTION 4/ 73 NOT IN DIRECTORY | | |
90. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 74 | RECORD NUMBER | 6677 |
| SECTION 4/ 74 NOT IN DIRECTORY | | |
91. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 75 | RECORD NUMBER | 6748 |
| SECTION 4/ 75 NOT IN DIRECTORY | | |
92. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 76 | RECORD NUMBER | 6817 |
| SECTION 4/ 76 NOT IN DIRECTORY | | |
93. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 77 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 77 | RECORD NUMBER | 6884 |
| SECTION 4/ 77 NOT IN DIRECTORY | | |
94. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 78 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 78 | RECORD NUMBER | 6951 |
| SECTION 4/ 78 NOT IN DIRECTORY | | |
95. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 79 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 79 | RECORD NUMBER | 7016 |
| SECTION 4/ 79 NOT IN DIRECTORY | | |
96. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 80 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 80 | RECORD NUMBER | 7081 |
| SECTION 4/ 80 NOT IN DIRECTORY | | |
97. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 81 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 81 | RECORD NUMBER | 7146 |
| SECTION 4/ 81 NOT IN DIRECTORY | | |
98. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 82 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 82 | RECORD NUMBER | 7211 |
| SECTION 4/ 82 NOT IN DIRECTORY | | |
99. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 83 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 83 | RECORD NUMBER | 7274 |
| SECTION 4/ 83 NOT IN DIRECTORY | | |
100. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 84 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 84 | RECORD NUMBER | 7337 |
| SECTION 4/ 84 NOT IN DIRECTORY | | |
101. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 85 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 85 | RECORD NUMBER | 7398 |
| SECTION 4/ 85 NOT IN DIRECTORY | | |
102. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 86 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 86 | RECORD NUMBER | 7459 |
| SECTION 4/ 86 NOT IN DIRECTORY | | |
103. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 87 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 87 | |
| | SECTION 4/ 87 NOT IN DIRECTORY | RECORD NUMBER 7518 |
104. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 88 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 88 | |
| | SECTION 4/ 88 NOT IN DIRECTORY | RECORD NUMBER 7577 |
105. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 89 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 89 | |
| | SECTION 4/ 89 NOT IN DIRECTORY | RECORD NUMBER 7636 |
106. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 4, MT= 90 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 4, MT= 90 | |
| | SECTION 4/ 90 NOT IN DIRECTORY | RECORD NUMBER 7695 |
107. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 5, MT= 18 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 5, MT= 18 | |
| | SECTION 5/ 18 NOT IN DIRECTORY | RECORD NUMBER 7755 |
108. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 5, MT= 19 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 5, MT= 19 | |
| | SECTION 5/ 19 NOT IN DIRECTORY | RECORD NUMBER 7764 |
109. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 5, MT= 20 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 5, MT= 20 | |
| | SECTION 5/ 20 NOT IN DIRECTORY | RECORD NUMBER 7773 |
110. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 5, MT= 21 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 5, MT= 21 | |
| | SECTION 5/ 21 NOT IN DIRECTORY | RECORD NUMBER 7782 |
111. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 5, MT= 38 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 5, MT= 38 | |
| | SECTION 5/ 38 NOT IN DIRECTORY | RECORD NUMBER 7791 |
112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 5, MT=455 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 5, MT=455 | |
| | SECTION 5/455 NOT IN DIRECTORY | RECORD NUMBER 7799 |
113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 6, MT= 16 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 6, MT= 16 | |
| | SECTION 6/ 16 NOT IN DIRECTORY | RECORD NUMBER 8390 |
114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 6, MT= 17 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 6, MT= 17 | |
| | SECTION 6/ 17 NOT IN DIRECTORY | RECORD NUMBER 9626 |
115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 6, MT= 37 (0): Directory (b)
- | | | |
|--|---|---------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 6, MT= 37 | |
| | SECTION 6/ 37 NOT IN DIRECTORY | RECORD NUMBER 10272 |
116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 6, MT= 91 (0): Directory (b)
- | | | |
|--|---|---------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 6, MT= 91 | |
| | SECTION 6/ 91 NOT IN DIRECTORY | RECORD NUMBER 10480 |
117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 8, MT= 16 (0): Directory (b)
- | | | |
|--|---|---------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 8, MT= 16 | |
| | SECTION 8/ 16 NOT IN DIRECTORY | RECORD NUMBER 13139 |
118. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 8, MT= 17 (0): Directory (b)
- | | | |
|--|---|---------------------|
| | ERROR(S) FOUND IN MAT=9231, MF= 8, MT= 17 | |
| | SECTION 8/ 17 NOT IN DIRECTORY | RECORD NUMBER 13142 |
119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF= 8, MT=102 (0): Directory (b)

- ERROR(S) FOUND IN MAT=9231, MF= 8, MT=102
SECTION 8/102 NOT IN DIRECTORY RECORD NUMBER 13145
120. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=12, MT= 18 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9231, MF=12, MT= 18
SECTION 12/ 18 NOT IN DIRECTORY RECORD NUMBER 13149
121. Missing a gamma spectrum for continuum of gammas
MAT=9231, MF=12, MT= 18 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=9231, MF=12, MT= 18
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
122. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9231, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 13154
123. Missing a gamma spectrum for continuum of gammas
MAT=9231, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=9231, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=13, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9231, MF=13, MT= 3
SECTION 13/ 3 NOT IN DIRECTORY RECORD NUMBER 13173
125. Missing a gamma spectrum for continuum of gammas
MAT=9231, MF=13, MT= 3 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=9231, MF=13, MT= 3
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
126. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=14, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9231, MF=14, MT= 3
SECTION 14/ 3 NOT IN DIRECTORY RECORD NUMBER 13215
127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=14, MT= 18 (0): Directory (b)
- ERROR(S) FOUND IN MAT=9231, MF=14, MT= 18
SECTION 14/ 18 NOT IN DIRECTORY RECORD NUMBER 13217

128. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=14, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 13219

129. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=15, MT= 3 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=15, MT= 3
SECTION 15/ 3 NOT IN DIRECTORY RECORD NUMBER 13222

130. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=15, MT= 18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=15, MT= 18
SECTION 15/ 18 NOT IN DIRECTORY RECORD NUMBER 13522

131. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=15, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=15, MT=102
SECTION 15/102 NOT IN DIRECTORY RECORD NUMBER 13555

132. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=31, MT=456 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=31, MT=456
SECTION 31/456 NOT IN DIRECTORY RECORD NUMBER 17445

133. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=33, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=33, MT= 2
SECTION 33/ 2 NOT IN DIRECTORY RECORD NUMBER 17550

134. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 17654

135. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9231, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=9231, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 17671

136. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=33, MT= 18 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF=33, MT= 18
SECTION 33/ 18 NOT IN DIRECTORY                RECORD NUMBER   17677
```

137. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=9231, MF=33, MT=102 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=9231, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY                RECORD NUMBER   17781
```

- **psyche** Errors:

1. A probability distribution is negative. This is bad.
FILE 4 / SECTION 52 / DISTRIBUTION IS NEGATIVE / FROM -9.9587E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9932E-04 (0): Neg. prob.

```
FILE 4
SECTION 52
DISTRIBUTION IS NEGATIVE
FROM -9.9587E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.9932E-04
```

- **recent** Warnings:

1. Statistical weight of certain L values were incorrect
0: RRR goof (a)

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [508 more lines]
```

- **groupie** Errors:

1. Very small elastic cross section found
0: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- **fudge-4.0** Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved (Error # 1): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
 WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
 WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 0.5 for "capture"
 WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
 ... plus 1 more instances of this message

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (n[multiplicity:'2'] + U235): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statcal weights for L=1 sums to 1.0, but should sum to 3.0. You have too few channels for re
 WARNING: The spin statcal weights for L=1 sums to 1.0, but should sum to 3.0. You have too few channels for re

2. Found a negative probability
*reaction label 1: n + U236_e1 / Product: n / Distribution: / angularTwoBody - XYs2d:
 (Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 2.6e7 eV, worst case: -0.0212664319196
 WARNING: Negative probabilities encountered. Incident energy: 2.8e7 eV, worst case: -0.0525151523168
 WARNING: Negative probabilities encountered. Incident energy: 3.e7 eV, worst case: -0.0329559518001

3. Found a negative probability
*reaction label 2: n + U236_e2 / Product: n / Distribution: / angularTwoBody - XYs2d:
 (Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 3.e7 eV, worst case: -0.103977892

4. Calculated and tabulated Q values disagree.
reaction label 42: n[multiplicity:'2'] + U235 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6764870.623809814 eV vs -6.5448e6 eV!

5. Energy range of data set does not match cross section range
*reaction label 42: n[multiplicity:'2'] + U235 / Product: U235 / Distribution: / uncorre-
 lated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6572777.0 -> 30000000.0) vs (6572767.0 -> 30000000.0)

6. Calculated and tabulated Q values disagree.
reaction label 43: n[multiplicity:'3'] + U234 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11462697.44589233 eV vs -1.18427e7 eV!

7. Energy range of data set does not match cross section range
reaction label 43: n[multiplicity:'3'] + U234 / Product: U234 / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (11893300.0 -> 30000000.0) vs (11893310.0 -> 30000000.0)

8. Calculated and tabulated Q values disagree.
reaction label 44: n[multiplicity:'4'] + U233 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -18979220.36126709 eV vs -1.86869e7 eV!

9. Energy range of data set does not match cross section range
reaction label 44: n[multiplicity:'4'] + U233 / Product: U233 / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18766770.0 -> 30000000.0) vs (18766750.0 -> 30000000.0)

10. Calculated and tabulated Q values disagree.
reaction label 46: U237 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5103889.129699707 eV vs 5.1259e6 eV!

11. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (599000.0 -> 30000000.0) vs (1e-05 -> 30000000.0)

12. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (599000.0 -> 30000000.0) vs (1e-05 -> 30000000.0)

13. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (309200.0 -> 600000.0) vs (1e-05 -> 30000000.0)

14. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (309200.0 -> 600000.0) vs (1e-05 -> 30000000.0)

15. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (149000.0 -> 600000.0) vs (1e-05 -> 30000000.0)

16. Energy range of data set does not match cross section range
production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma__b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (149000.0 -> 600000.0) vs (1e-05 -> 30000000.0)

17. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma_c
/ Multiplicity: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 600000.0) vs (1e-05 -> 30000000.0)

18. Energy range of data set does not match cross section range
*production label 47: /reactionSuite/reactions/production[@label='47'] / Product: gamma_c
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 600000.0) vs (1e-05 -> 30000000.0)

19. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 4: nonelastic total gamma multiplicity (Error # 0): summedMultiplicityMismatch

WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 0.18%

20. Energy range of data set does not match cross section range
*fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
/ Product: n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 30000000.0) vs (2600000.0 -> 30000000.0)

21. Energy range of data set does not match cross section range
*fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
/ Product: n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 30000000.0) vs (10400000.0 -> 30000000.0)

22. Energy range of data set does not match cross section range
*fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
/ Product: n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (1e-05 -> 30000000.0) vs (16000000.0 -> 30000000.0)

• njoy2012 Warnings:

1. If MT=19 is present, MT=18 will be ignored.
heatr...prompt kerma (0): HEATR/hinit (2)

---message from hinit---mt18 is redundant
19, 20, 21, ... will be used.

2. There is a problem with the fission energy release.
heatr...prompt kerma (1): HEATR/nheat (3)

---message from nheat---changed q from 1.944900E+08 to 1.795100E+08
for mt 19

3. There is a problem with the fission energy release.
heatr...prompt kerma (2): HEATR/nheat (3)

```
---message from nheat---changed q from 1.944900E+08 to 1.795100E+08
for mt 20
```

4. There is a problem with the fission energy release.
heatr...prompt kerma (3): HEATR/nheat (3)

```
---message from nheat---changed q from 1.944900E+08 to 1.795100E+08
for mt 21
```

5. There is a problem with the fission energy release.
heatr...prompt kerma (4): HEATR/nheat (3)

```
---message from nheat---changed q from 1.944900E+08 to 1.795100E+08
for mt 38
```

- njoy2012 Errors:

1. An angular distribution is negative
acer...monte carlo neutron and photon data (0): Neg. P(Ejμ) (b)

```
---message from ptleg2---negative probs found
26 for mt= 51 e= 2.600E+07
```

2. An angular distribution is negative
acer...monte carlo neutron and photon data (1): Neg. P(Ejμ) (b)

```
---message from ptleg2---negative probs found
54 for mt= 51 e= 2.800E+07
```

3. An angular distribution is negative
acer...monte carlo neutron and photon data (2): Neg. P(Ejμ) (b)

```
---message from ptleg2---negative probs found
91 for mt= 51 e= 3.000E+07
```

4. An angular distribution is negative
acer...monte carlo neutron and photon data (3): Neg. P(Ejμ) (b)

```
---message from ptleg2---negative probs found
5 for mt= 52 e= 3.000E+07
```

- acelst Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```
ACELST WARNING - Processing Ang.Dist.MT 2
E-grid non-monotonic 1.000000000E+01 1.000000000E+01
```